What Is Claimed Is:

A compound according to formula (I 1.



H

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(I)

wherein,

at least one of X^1 , X^2 , and X^3 is $(HO)_2PO-Z^1$ — or $(HO)_2PO-Z^2-P(OH)O-Z^1-$, X^1 and X^2 are linked together as -O-PO(OH)-O—, or X¹ and X³ are linked together as —O—PO(OH)—NH—;

at least one of X^1 , X^2 , and X^3 is $R^1 - Y^1 - A$ — with each being the same or different when two of X^1 , X^2 , and X^3 are $R^1 - Y^1 - A - \cdots$, or X^2 and X^3 are linked together as $N(H) C(O) N(R^1)$;

optionally, one of X^1 , X^2 , and X^3 is H;

A is either a direct link, $(CH_2)_k$ with k being an integer from 0

to 30, or O;

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 $(CH_2)_l$ with l being an integer from 1 to 30, -O

alkenyl, an aromatic or heteroaromatic ring with or without mono-, di-, or tri-

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substitutions of the ring, an acyl including a C1 to C30 alkyl or an aromatic or heteroaromatic ring, an arylalkyl including straight or branched-chain C1 to C30 alkyl, an aryloxyalkyl including straight or branched-chain C1 to C30 alkyl,



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R², R³, R⁴, R⁵, R⁶, R⁷, and R⁸ are independently hydrogen, a straight or branched-chain C1 to C30 alkyl, a straight or branched-chain C2 to C30 alkenyl, an aromatic or heteroaromàtic ring with or without mono-, di-, or trisubstitutions of the ring, an acyl including a C1 to C30 alkyl or aromatic or heteroaromatic ring, an arylalkyl including straight or branched-chain C1 to C30 alkyl, or an aryloxyalkyl including straight or branched-chain C1 to C30 alkyl;

wherein the compound of formula (I) is not lysophosphatidic acid, phosphatidic acid, eyelic phosphatidic acid, alkenyl glycerolphosphate, dioctyl glycerol pyrophosphate, or N-palmitoyl-L-serine.

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2. The compound according to claim 1, wherein $Q^{1} \text{ and } Q^{2} \text{ are both } H_{2};$ one of X^{1} , X^{2} , and X^{2} is $(HO)_{2}PO-Z^{2}-P(OH)O-Z^{2}-$, with

 Z^1 and Z^2 being O; and

two of X^1 , X^2 , and X^3 are R^1 — Y^1 —A—, with A being a direct link and Y^1 being O for each.

3	3.	The compound according to claim 1, wherein
		Q^1 is H_2 ;
		Q^2 is $=0$;
		X^1 is $(HO)_2PO-Z^1$, with Z^1 being O; and
		X^2 and X^3 are R^1 — Y^1 —A—, with A being a direct link and Y^1
being —NH— 1	for eac	
-		
4	4.	The compound according to claim 3, wherein X ³ is —NH ₂ and
X ² is —NHR ¹	with F	R ¹ being a C14 to C18 alkyl.
5	5.	The compound according to claim 4, wherein R^1 is a C14 alkyl.
		•
6	6.	The compound according to claim 4, wherein R ¹ is a C18 alkyl.
7	7.	The compound according to claim 3, wherein
		X^3 is $-NHR^1$ with R^1 being an acetyl group and
·.	,*	X ² is —NHR ¹ with R ¹ being a C14 alkyl.
8	8.	The compound according to claim 1, wherein
	•	Q^1 is $=NR^4$;
		Q^2 is H_2 ;
		X ¹ and X ² are linked together as —O—PO(OH)—O—; and
		X^3 is $R^1 - Y^1 - A$, with A being a direct link and Y^1 being
—NH—.		
9	9.	The compound according to claim 1, wherein
		Q ¹ and Q ² are both H ₂ ;
		two of X^1 , X^2 , and X^3 are $(HO)_2PO-Z^1$, with Z^1 being O ;
and		
		one of X^1 , X^2 , and X^3 is R^1 — Y^1 — A —, with A being a direct
link and Y¹ being —O—.)—. /
	being —NH— X² is —NHR¹ —NH—.	5. 6. 7. 8. —NH—. 9.

	10.	The compound according to claim 9, wherein R ¹ is an acyl
	including a C21 al	kyl.
5	11.	The compound according to claim 9, wherein R ¹ is a C18 alkyl.
3	12.	A pharmaceutical composition comprising:
		a pharmaceutically-acceptable carrier and
		a compound according to claim 1.
10 110	13. comprising:	A method of inhibiting LPA activity on an LPA receptor
		providing a compound according to claim 1 which has activity
ill	as an LPA receptor	r antagonist and
Store from Store		contacting an LPA receptor with the compound under
15	conditions effective	ve to inhibit LPA-induced activity of the LPA receptor.
=1	14.	The method according to claim 13, wherein the LPA receptor is
	present on a cell a	nd said contacting is carried out in vitro.
20	15.	The method according to claim 13, wherein the LPA receptor is
	present on a cell a	nd said contacting is carried out in vivo.
	16.	The method according to claim 13, wherein the LPA receptor is
25	selected from the	group consisting of EDG-2, EDG-4, EDG-7, and PSP-24.
23	17.	
		providing a compound according to claim 1 which has activity
	as either an LPA r	eceptor agonist or an LPA receptor antagonist and
		contacting an LPA receptor with the compound under
30	conditions effective	re to modulate the activity of the LPA receptor.
	18.	The method according to claim 17, wherein the LPA receptor is

present on a cell and said contacting is carried out in vitro.

19.	The method according to claim 17, wherein the LPA receptor is					
present on a cell and said contacting is carried out in vivo.						
20.	The method according to claim 17, wherein the LPA receptor is					
selected from the group consisting of EDG-2, EDG-4, EDG-7, and PSP-24.						
21.	The method according to claim 17, wherein the compound has					
activity as an LPA re-	ceptor agonist and said confacting is carried out under conditions					
effective to induce LI	PA receptor activity.					
22.	The method according to claim 17, wherein the compound has					
activity as an LPA receptor antagonist and said contacting is carried out under						
conditions effective t	o reduce LPA receptor activity.					
23.	A method of treating cancer comprising:					
	providing a compound according to claim 1 and					
	administering an effective amount of the compound to a patient					
in a manner effective to treat cancer.						
24.	The method according to claim 23, wherein the cancer is					
prostate cancer or ovarian cancer.						
25.	The method according to claim 23, wherein the compound is an					
LPA receptor antagor	ist and said administering comprises:					
/	delivering the compound to cancer cells, where the compound					
binds to LPA receptors to inhibit proliferation or metastasis of the cancer cells.						
/						
26.	The method according to claim 23, wherein upon deliverying					
the compound to cancer cells, the cancer cells are destroyed.						

27.

as an agonist of an LPA receptor and

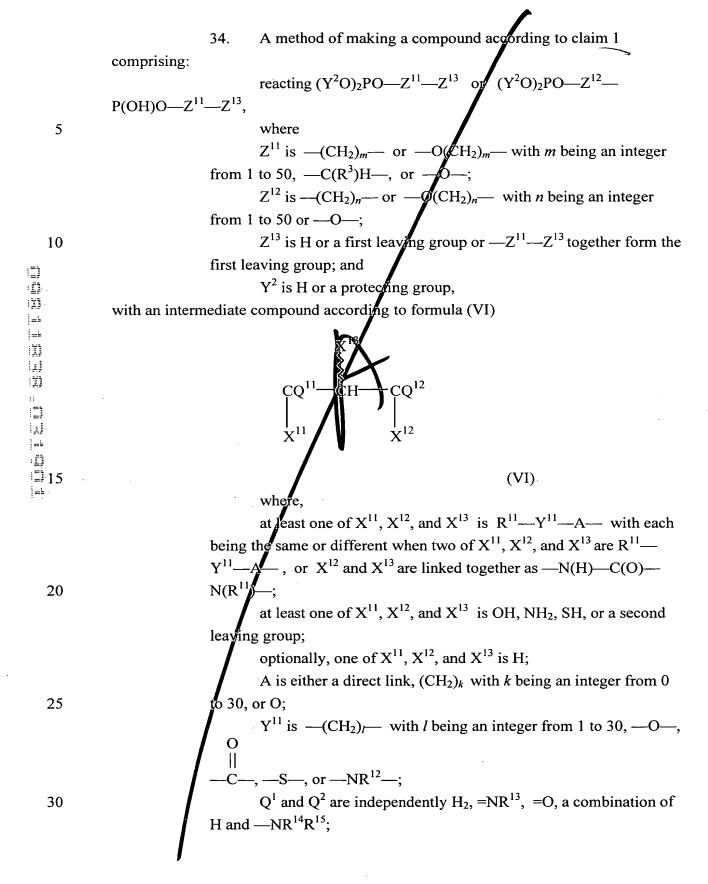
A method of enhancing cell proliferation comprising:

providing a compound according to claim 1 which has activity

contacting the LPA receptor on a cell with the compound in a

5	manner effective to	manner effective to enhance LPA receptor-induced proliferation of the cell.			
	28.	The method according to claim 27, wherein the LPA receptor is			
	selected from the gr	roup consisting of EDG-2, EDG-4, EDG-7, and PSP-24			
10	29.	The method according to claim 27, wherein the cell is in vitro.			
	30.	The method according to claim 27, wherein the cell is <i>in vivo</i> .			
	31.	A method of treating a wound comprising:			
15	as an agonist of an	providing a compound according to claim 1 which has activity LPA receptor and			
	where the compour	delivering an effective amount of the compound to a wound site and binds to LPA receptors on cells that promote healing of the			
•	-	nulating LPA receptor agonist-induced cell proliferation to promot			
20	wound healing.				
	32.	The method according to claim 31, wherein said delivering			
	comprises:	introducing to the wound site a composition comprising the			
25	compound and a/ph	armaceutically acceptable carrier.			
	33.	The method according to claim 32, wherein the wound site is			
	external and said in	troducing comprises:			

topically applying the composition to the wound site.



R¹¹, for each of X¹¹, X¹², or X¹³, is independently hydrogen, a straight or branched-chain C1 to C30 alkyl, a straight or branched-chain C2 to C30 alkenyl, an aromatic or heteroaromatic ring with or without mono-, di-, or tri-substitutions of the ring, an acyl including a C1 to C30 alkyl or an aromatic or heteroaromatic ring, an arylalkyl including straight or branched-chain C1 to C30 alkyl, an aryloxyalkyl including straight or branched-chain C1 to C30 alkyl,

$$R^{16}$$
 R^{16}
 R^{16}
 R^{17}
 R^{18}
 R^{19}
 R

R¹², R¹³, R¹⁴, R¹⁵, R¹⁸, and R¹⁷ are independently hydrogen, a straight or branched-chain C1 to C30 alkyl, a straight or branched-chain C2 to C30 alkenyl, an aromatic or heteroaromatic ring with or without mono-, dir, or tri-substitutions of the ring, an acyl including a C1 to C30 alkyl or aromatic or heteroaromatic ring, an arylalkyl including straight or branched-chain C1 to C30 alkyl, or an aryloxyalkyl including straight or branched-chain C1 to C30 alkyl;

followed by a de-protection step, if necessary, with both said reacting and the deprotection step being performed under conditions effective to afford a compound according to formula (I) where one or two of X^1 , X^2 , and X^3 is $(HO)_2PO-Z^1$ — or $(HO)_2PO-Z^2-P(OH)O-Z^1$ —.

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